

**Abstract****Process for preparing a polymer**

5 The present invention relates to a process for preparing a catalyst, a novel polymer and a process for preparing the polymer. In particular, the invention provides a process for preparing a homopolymer and/or copolymer having an irregular particle structure and  
a melt flow index (MFR 190/15) of from 1.3 g/10 min to  
10 g/10 min,  
a molecular weight distribution  $M_w/M_n$  of from 3 to 30,  
a bulk density of from 0.05 g/cc to 0.4 g/cc and  
a particle size of from 5  $\mu\text{m}$  to 300  $\mu\text{m}$ ,  
which comprises polymerizing the monomers in the presence of a mixed  
10 catalyst comprising a titanium component and an organic aluminum  
compound and the presence of a molar mass regulator.

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